

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference RGC/P/13571.6	FOR FURTHER ACTION	
	See item 4 below	
International application No. PCT/GB2004/002148	International filing date (<i>day/month/year</i>) 17 May 2004 (17.05.2004)	Priority date (<i>day/month/year</i>) 15 May 2003 (15.05.2003)]
International Patent Classification (IPC) or national classification and IPC ⁷ C11D 3/00, 1/40, 3/20, 3/02, A61L 2/18, A01N 31/02, 31/04, 59/12, 59/00		
Applicant GREENBRIDGE ENVIRONMENTAL CONTROL LIMITED		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 10 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the report |
| <input checked="" type="checkbox"/> | Box No. II | Priority |
| <input checked="" type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input checked="" type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input checked="" type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input checked="" type="checkbox"/> | Box No. VIII | Certain observations on the international application |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

Date of issuance of this report 18 November 2005 (18.11.2005)
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PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

REC'D 09 NOV 2004

MDCT BOT

To:

see form PCT/ISA/220

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION

See paragraph 2 below

International application No.
PCT/GB2004/002148

International filing date (day/month/year)
17.05.2004

Priority date (day/month/year)
15.05.2003

International Patent Classification (IPC) or both national classification and IPC
C11D3/00, C11D1/40, C11D3/20, C11D3/02, A61L2/18, A01N31/02, A01N31/04, A01N59/12, A01N59/00

Applicant
GREENBRIDGE ENVIRONMENTAL CONTROL LIMITED

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/GB2004/002148

Box No. I Basis of the opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
 - a sequence listing
 - table(s) related to the sequence listing
 - b. format of material:
 - in written format
 - in computer readable form
 - c. time of filing/furnishing:
 - contained in the international application as filed.
 - filed together with the international application in computer readable form.
 - furnished subsequently to this Authority for the purposes of search.
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/GB2004/002148

Box No. II Priority

1. The following document has not been furnished:

- copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).
 translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).

Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.

2. This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.
3. Additional observations, if necessary:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/GB2004/002148

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

- the entire international application,
 claims Nos. 30-33

because:

- the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):
 the description, claims or drawings (*Indicate particular elements below*) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):
 the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.
 no international search report has been established for the whole application or for said claims Nos. 30-33
 the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:

- | | |
|----------------------------|---|
| the written form | <input type="checkbox"/> has not been furnished
<input type="checkbox"/> does not comply with the standard |
| the computer readable form | <input type="checkbox"/> has not been furnished
<input type="checkbox"/> does not comply with the standard |
- the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-*bis* of the Administrative Instructions.
- See separate sheet for further details

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/GB2004/002148

Box No. IV Lack of unity of invention

1. In response to the invitation (Form PCT/ISA/206) to pay additional fees, the applicant has:
 - paid additional fees.
 - paid additional fees under protest.
 - not paid additional fees.
2. This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
 - complied with
 - not complied with for the following reasons:

see separate sheet
4. Consequently, this report has been established in respect of the following parts of the international application:
 - all parts.
 - the parts relating to claims Nos. 1-29,34

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or
industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Yes:	Claims	1-29,34
	No:	Claims	
Inventive step (IS)	Yes:	Claims	9-12
	No:	Claims	1-8,13-29,34

Industrial applicability (IA)	Yes:	Claims	1-29,34
	No:	Claims	

2. Citations and explanations

see separate sheet

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/GB2004/002148

Box No. VII Certain defects in the International application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the International application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item III.

1. See below Re Item IV.

Re Item IV.

2. The separate inventions are:

- 1-29,34:
Compositions comprising at least one alcohol, at least one long chain alkyl polyamine, and at least one halogen; and the method for manufacturing said composition.
- 30-33:
Means of destroying bacteria and/or inhibiting the ability of bacteria and/or viruses to replicate when said bacteria and/or viruses are present on a surface, by application of a composition to said surface.

They are not so linked as to form a single general inventive concept (Rule 13.1 PCT) for the following reasons:

There is no common inventive concept between the first and the second subject as independent claims 30 and 31 do not define the ingredients of the composition to be used in the claimed means. The fact that dependent claims 31 and 33 refer to claim 30 indicates that the composition used in the means of claims 31 and 33 can be totally different to that of claim 1. Thus, the common feature between the first and second subject is a disinfecting composition. Such compositions are well known in the state of the art.

Therefore, the present application does not meet the requirements of unity within the meaning of Article 6 of the PCT.

Consequently, only the first invention (concerned with claims 1 to 29 and 34) is dealt with in this written opinion.

Re Item V.

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING
AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/GB2004/002148

3. None of the document cited in the search report specifically discloses a composition comprising an alcohol, an alkyl polyamine compound and a halogen. Therefore, the claimed composition is novel over said prior art.
4. However, the subject-matter of independent claims 1 to 6 does not seem to involve an inventive step for the following reason:

Documents DE-A-19 918 475 (D1) and US-A-5 276 047 (D2) disclose disinfecting compositions comprising a long-chain alkyl polyamine compound and which further comprise or may comprise an aliphatic alcohol (see the passages indicated in the search report). Although said compositions do not comprise iodine, iodine and iodine complexes (iodophors) are well known disinfectants and have been commonly used in combination with aliphatic alcohols in antimicrobial cleaning compositions; see documents US-A-6 387 856 (D3) and WO 93/07250 (D4), the passages indicated in the search report.

Therefore, the introduction of iodine as halogen in the disinfecting compositions of D1 and D2 will represent an obvious process for a person skilled in the art in order to provide further disinfecting benefits to the compositions.

5. Dependent claims 7, 8 and 13 to 29 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step since said additional features are either known from at least one of D1 to D4 or represent slight constructional changes which come within the scope of the customary practice of a skilled person.
6. The subject-matter of dependent claims 9 to 12 appears to involve an inventive step since none of D1 and D2 envisages the use of such a long-chain alkyl polyamine compound in disinfecting compositions.
7. The subject-matter of independent claim 34 also appears to lack an inventive step as the way to manufacture such a composition seems to be common in the art.

Re Item VII.

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING
AUTHORITY (SEPARATE SHEET)**

International application No.
PCT/GB2004/002148

8. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in documents D1 to D4 is not mentioned in the description, nor are these documents identified therein.

Re Item VIII.

9. The dependency of claims 10 to 12, 21 and 28 appears to be wrong.